snapserver™ BY ADAPTEC

700i Series Quick Start Guide and User CD

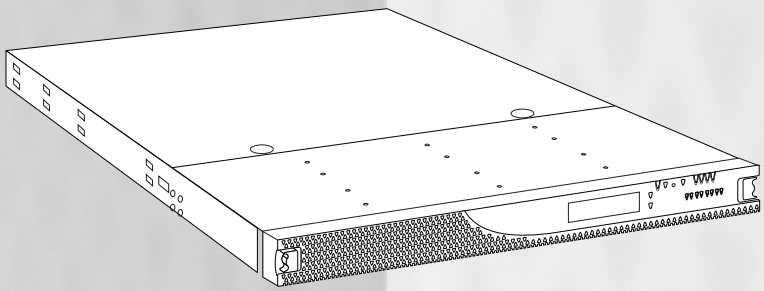
Kurzanleitung und Benutzer-CD

Guía de iniciación rápida y CD del usuario

Guide de mise en route rapide et CD de l'utilisateur

Guida rapida all'uso e CD utente

Руководство по быстрой установке и компакт-диск User CD



www.snapserver.com

About This Guide

This guide shows you how to install your Snap Server 700i Series in a rack, connect the server to your network, and set up your iSCSI configuration. The instructions consist of 5 steps:

- Step 1: Verify the contents of your shipping package and ensure that you are using a supported iSCSI Initiator.
- Step 2: Install the server in the rack.
- Step 3: Connect power and network cables.
- Step 4: Power on the Snap Server.
- Step 5: Connect to the Snap Server and configure it as an iSCSI Storage Appliance.

Step 1: Verify Contents of the Shipping Package and System Requirements

Before you begin installation, check to make sure you have all the hardware and software components required for your system.

- Check the contents of your Ship Kit to ensure you have all the components described in *Hardware Features*.
- Gather any optional components that you need to complete your system (described below in the *Optional Hardware Components* table).
- Verify that supported operating system(s) and Initiator(s) are installed on your network (see the *Snap Server 700i Series User's Guide* for a complete list).

Optional Hardware Components

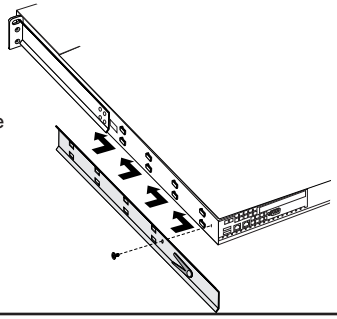
Component	Description
Power Supply Upgrade	The Snap Server 720i can be upgraded to a second power supply. The Snap Server 730i and 750i come with dual power supplies.
APC-brand UPS devices	Snap Servers are designed to work with a USB- or network-based APC-brand UPS. Visit the APC Web site for a list of APC models to use with your Snap Server.
Memory Upgrades	The Snap Server 720i memory can be upgraded to 2 GB. Memory upgrades are available in 1GB DIMMs.

Step 2: Install the Server in a Rack

Note The Snap Server 700i Series models can only be mounted in a four-post, 32-inch depth, EIA-compliant rack. A two-post telco-style rack or a rack less than 32-inches in depth will not support the server.

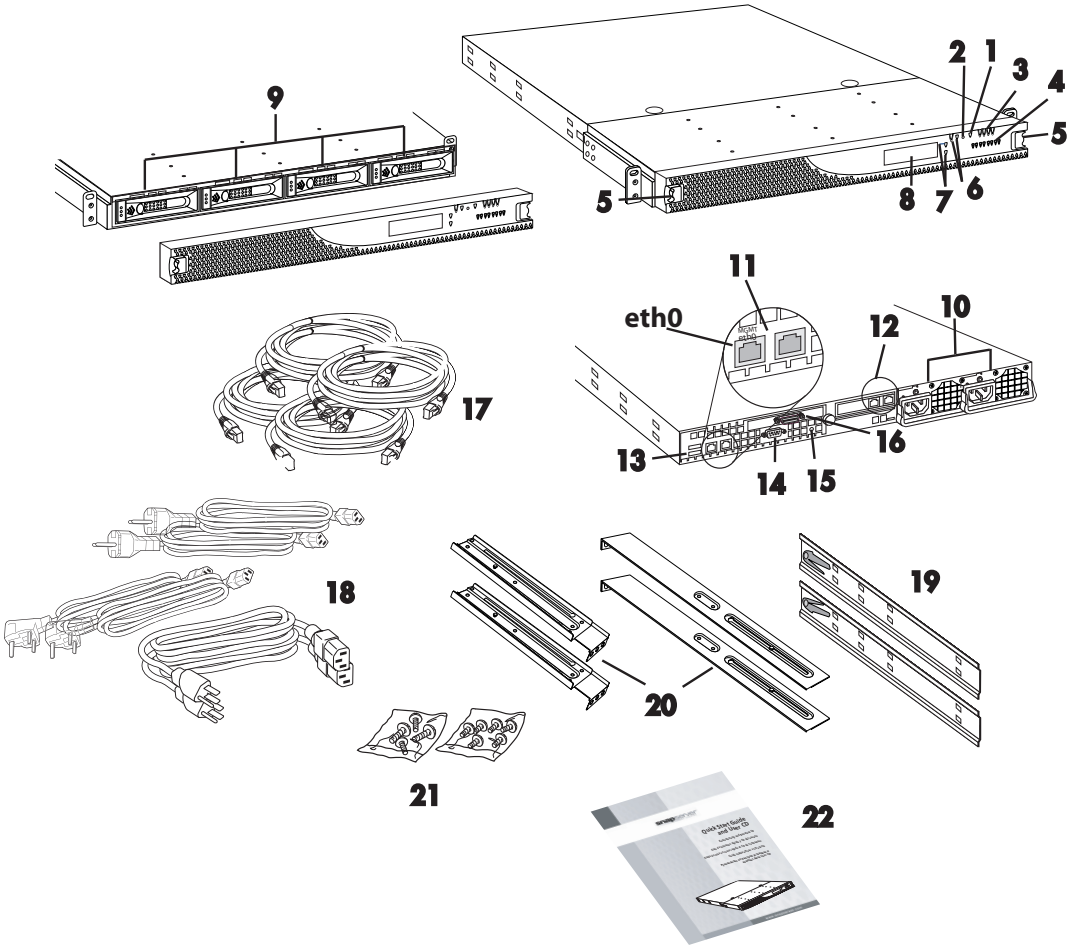
As shown in the *Hardware Features* illustration, the Snap Server ships with two slide rail assemblies consisting of inner rails to attach to the chassis, outer rails to attach to the rack, and a packet of screws for mounting the rails to the chassis and to the rack. The rails are not universal. They are stamped *Left* and *Right* and must be mounted correctly (stamped designation refers to left and right as you are facing the front of the unit). You will need a Phillips screwdriver to mount the rails and a second person to help position the Snap Server into the rack.

Attach the Sliders to the Chassis



1. Take the left inner slider and position it on the left side toward the rear of the chassis. The tongues on the chassis should fit through the rectangular holes on the rail, and the release mechanism should be facing out.
2. Slide the rail forward, and continue to slide until you can feel that it is attached securely (see illustration).
3. Fasten with the rail attachment Phillips screw.
4. Repeat Steps 1 through 3 for the right inner slider.

Hardware Features



1 Power button

2 Reset button

3 System status lights

4 Disk drive status lights

5 Bezel release mechanisms

6 Unit ID (UID) light and button

7 Not active (for future use)

8 LCD (Liquid Crystal Display)

9 Hot-swappable disk drives (4)

10 Power supply modules (2) *

11 eth0 and eth1 Ethernet ports

12 eth2 and eth3 Ethernet ports *

13 USB 2.0 ports (2)

14 Service connector

15 Unit ID (UID) light and button

16 SAS connector

17 Ethernet cables (4) *

18 Power cables (2 US, 2 UK, 2 EU)*

19 Inner slide rails (2)

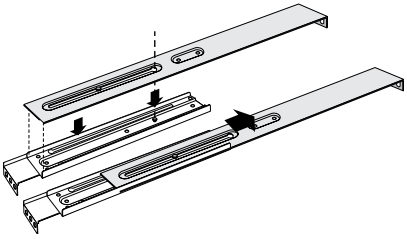
20 Outer slide rails (4)

21 Rack mount screws

22 Quick Start Guide and User CD

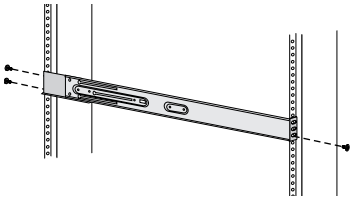
* The Snap Server 720i has a single power supply with one power cable (1US, 1UK, 1EU). It also has 3 Ethernet ports with 3 Ethernet cables.

Attach the Slide Rail Assemblies to the Rack



1 Assemble the outer slide rail assemblies by fitting the longer rail piece on top of the shorter rail piece and pulling outward until the two pieces lock.

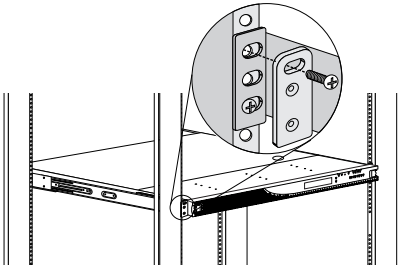
2 Position one of the rail assemblies in the rack (making sure you place the right-stamped rail on the right side of the rack).



3 Align the front holes with the front holes in the rack, and screw a rail screw into the bottom hole. Note that the rack holes are not evenly spaced. Be sure to align the rail so that the rail holes match up with the rack holes.

4 Align the rear holes with the rear holes in the rack and screw rail screws in the top and bottom holes.

5 Repeat Steps 2, 3, and 4 for the second rail.



Mount the Chassis in the Rack

1 Align the inner sliders (attached to the chassis) with the front ends of the slide rail assemblies (attached to the rack) and slide the server into the rack.

2 Line up the holes on the inner sliders with the holes on the rack/outer rails, and secure the chassis with the remaining screws.

Step 3: Connect Power and Network Cables

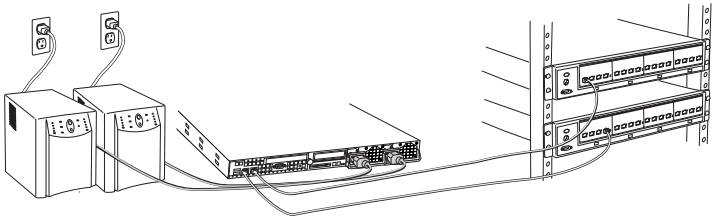
The server has four (three on the Snap Server 720i) Gigabit Ethernet ports that can connect to 10BaseT, 100BaseTx, or 1000BaseT networks (a 1000BaseT network will provide best performance). At least one port must be connected; however, a multi-port configuration offers considerable performance advantages and is highly recommended.

If you connect only one port, it must be the eth0 port (as shown in the *Hardware Features* illustration), which is used by Adaptec Storage Manager as the management port but which can also double as an iSCSI port.

Cabling the Server to the Network

Use the provided Ethernet cables to connect the server to the network. When you connect network cables to eth0 and eth1 active ports, the network lights on the bezel (LAN 1 and LAN 2) are green. The Activity network lights for eth2 and eth3 (located on the rear of the server on the Network Interface Card) blink green to indicate that the ports are active.

Connecting the Power Cord



Note The Snap Server 730i and 750i (shown) use a dual power supply. The Snap Server 720i (not shown) has a single power supply and will require only one UPS and/or electrical outlet for installation.

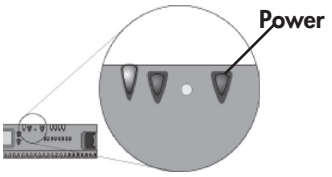
As a data integrity measure, Adaptec strongly recommends you connect each power supply module to a separate power source via a separate UPS. Use the provided power cord(s) to plug the modules into the UPS(s) or properly grounded electrical outlet(s).

Note Snap Servers are designed to work with APC-brand, USB- or network-based UPS devices to automatically shut down cleanly in case of a power failure. You must configure the APC unit both in ASM and in the APC user interface.

Step 4: Power On the Snap Server

To turn on the server, press the power button on the front of the server. The server takes a few minutes to initialize. The LCD will display the server's name and the eth0 (Management port) IP address when the system has fully initialized.

Note If you connect a SANbloc S50 expansion array, use the array's documentation to install and connect the array before powering on the Snap Server.



Step 5: Connect to the Snap Server and Configure the iSCSI Storage Appliance

Snap Servers are preset to acquire an IP address from a DHCP server. If no DHCP server is found on the network, the server defaults to an IP address of 10.10.10.10 and you should assign a different IP address using the following procedure:

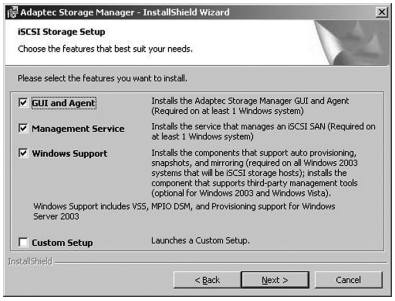
1 Set a machine in your environment to the same subnet as the Snap Server and telnet to the Snap Server: `telnet 10.10.10.10`

2 Exit the CLI Wizard to get an Administrator prompt: `*abort` (If prompted for an ID and password, use *admin/admin*.)

3 Change the IP Address: `interface manage eth0 ip` *xxx.xxx.xxx.xxx* (the new IP Address)
The LCD screen on the Snap Server bezel will show the new IP Address.

Install and Configure Adaptec Storage Manager™ (ASM)

Your iSCSI Storage can be configured in a number of ways. This Quick Start Guide describes the simplest configuration, where all components are installed on a single server running Windows 2003 and connected to the Snap Server 700i Series iSCSI Storage Appliance. For more complex network configurations and for installations on Windows Vista, XP, or Linux-based operating systems, see the *Snap Server 700i Series User's Guide* on your Adaptec OnTarget™ User CD.


Adaptec Storage Manager - InstallShield Wizard
iSCSI Storage Setup
Choose the features that best suit your needs.
Please select the features you want to install.
GUI and Agent
Installs the Adaptec Storage Manager GUI and Agent (Required on at least 1 Windows system)
Management Service
Installs the service that manages an iSCSI SAN (Required on at least 1 Windows system)
Windows Support
Installs the components that support auto provisioning, snapshots, and mirroring (required on all Windows 2003 systems that will be iSCSI storage hosts); installs the component that supports third-party management tools (optional for Windows 2003 and Windows Vista).
Windows Support includes VSS, MPIO DSM, and Provisioning support for Windows Server 2003
Custom Setup
Launches a Custom Setup.
InstallShield
< Back
Next >
Cancel

IMPORTANT! Install your Microsoft iSCSI Software Initiator v2.05 BEFORE installing ASM. Download and install the Initiator from www.microsoft.com and select the following options: *Initiator Service*, *Software Initiator*, *Microsoft MPIO Multipathing Support for iSCSI*.

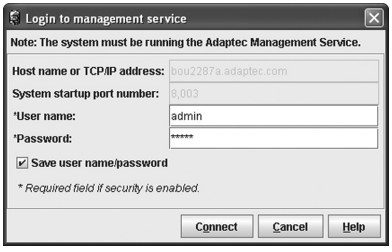
1 Install ASM (located on your User CD), and follow the Installation Wizard prompts:

a. Select **iSCSI Storage** as the Setup Type.

b. Make sure all component boxes (**GUI and Agent**, **Management Service**, and **Windows Support**) are checked (this is the default).

d. Create a user name and password and click **Next**. Then click **Install** to begin the installation.

e. Reboot after the installation is complete.



2 Configure ASM to add the Management Service.

a. Launch ASM. The **Login to management service** dialog box should open automatically. If it does not, in the Enterprise view, expand iSCSI Storage, then click the ASM Management Service just installed.

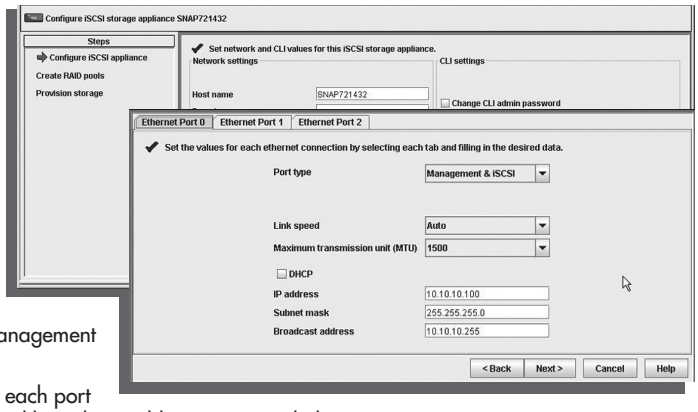
b. Log in, using the user name and password you created when installing ASM.

Add the Snap Server and Configure it as an iSCSI Storage Appliance

1 **Add the Snap Server as an iSCSI Storage Appliance**.

The Configuration Wizard opens, prompting you to provide the IP address of the Snap Server. Enter the IP address displayed on the Snap Server LCD screen, and click **Add**.

2 Configure the Network Settings



a The iSCSI Storage Appliance you added is automatically selected in the Wizard. Click **Next** to configure Network Values.

b Set Network and CLI Values (host name, domain name, default gateway, up to three domain name servers, and CLI passwords) or accept the defaults. Click **Next**.

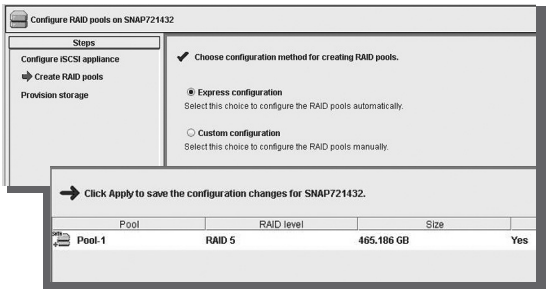
c Set values for each of your active Ethernet ports, then click **Next**.

- ETH0 can be either a management port only or it can double as both a management and an iSCSI port.
- Verify that the DHCP box is cleared on each port and a static IP address, subnet mask, and broadcast address are provided.
- A Caution displays asking you to make sure the IP address you entered is valid and not in use. Click **Yes** if you are certain the IP address is valid or click **No** and modify the address.

d Set the date, time, and time zone (verify that the **Use current date and time** box is checked), then click **Next**. Confirm your selections and click **Apply**.

e A Registration dialog box opens. Click **Register Now** to register your iSCSI Storage Appliance.

2 Create and Configure RAID Pools



a On the Configure RAID Pools screen, create pools using either **Express** or **Custom** configuration.

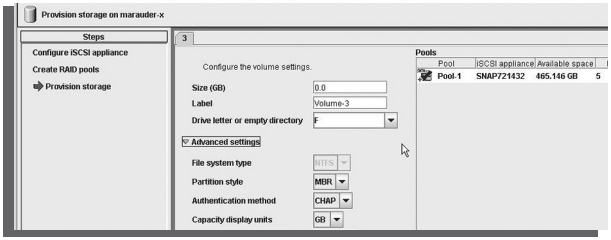
- If you select Express, the default configuration is a RAID 5 with one hot spare.
- If you select Custom, you configure the pools and RAID levels based on your system requirements. See the *Snap Server 700i Series User's Guide* or ASM online help for information on custom-configuring pools.

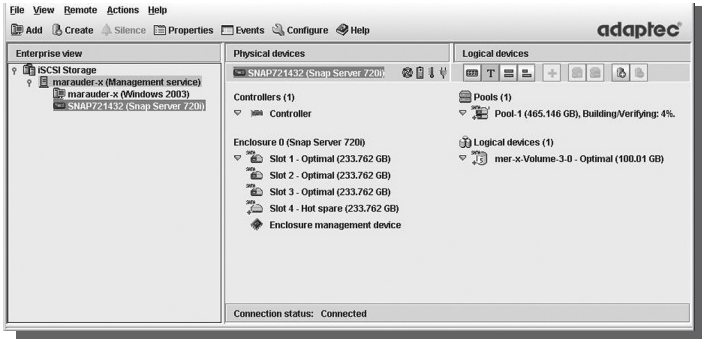
b On the Configuration Summary screen, verify your configuration and click **Apply**. Click **Next** to provision storage.

3 Provision Storage

a On the Provision Storage screen, set the size, label, and drive letter information for your pools. Then select **Advanced Settings** to configure Partition style and Authentication method.

b Once you have provisioned storage, click **Apply** to finish your configuration. When asked if you want to create the volume, click **Yes**.





When finished, you will see a display of your iSCSI Storage Appliance configuration.

You now have a fully configured iSCSI storage volume, which is available for use immediately. You do not need to wait until the build/verify process finishes.

Copyright © 2007 Adaptec, Inc. All rights reserved worldwide. All other product names or company names are the property of their respective owners.

Copyright © 2007 Adaptec, Inc. Alle Rechte weltweit vorbehalten. Alle anderen Produktnamen und Firmennamen sind Eigentum der jeweiligen Unternehmen.

Copyright © 2007 Adaptec, Inc. Reservados todos los derechos en el ámbito internacional. Todos los otros nombres de productos o de compañías son propiedad de susrespectivos priopietarios.

Copyright © 2007 Adaptec, Inc. Tous droits réservés dans le monde entier. Tous les autres noms de produit ou de société appartiennent à leurs détenteurs respectifs.

Copyright © 2007 Adaptec, Inc. Tutti i diritti riservati in tutti i paesi del mondo. Tutti i nomi di prodotti e società sono di proprietà dei rispettivi proprietari.

© Adaptec, Inc., 2007. Все права защищены во всех странах. Прочие названия изделий и компаний являются собственностью соответствующих владельцев.

snapserver™ BY ADAPTEC

www.snapserver.com 408-957-2550

70990908-002 Rev A